



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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April 3, 1997

Jay Gatten
Pearl Queen Perlite Corporation
472 North Main
Kaysville, Utah 84037

Re: Tentative Approval of Large Mining Operations, Pearl Queen Perlite Corp., POP Perlite Mine, M/001/027, beaver County, Utah

Dear Mr. Gatten:

The Division has completed a review of your response to our Initial Plan Review dated September 4, 1996. Your response was received February 24, 1997. After reviewing the information, the Division has several comments which will need to be addressed. The comments are listed separately under the applicable Minerals Rule heading. Please format your response in a similar fashion. The Division believes there is sufficient information in your plan at this time to grant tentative approval of your Large Mining Operation Notice of Intention.

The Division requests that you submit the responses to our remaining comments by April 11, 1997 and hopefully we can present this at the May 28th Board hearing. To accomplish this, all bonding documents and reclamation contracts will have to be complete and submitted to the Division by May 6, 1997. The board hearing is on May 28th.

If you have any questions in this regard please contact me, Tony Gallegos, Lynn Kunzler, or Tom Munson of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your continued cooperation in completing this permitting action.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

0001

REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

Pearl Queen Perlite Corporation

PQP Perlite Mine

April 3, 1997

M/001/027

R647-4-106 - Operation Plan

106.6 Plan for protecting & redepositing soils

Topsoil piles need to be seeded with a cover crop if the soil is not going to be redistributed within a couple months. Attached is a recommended seed mix for stabilizing topsoil stockpiles. Also, all topsoil piles should be appropriately posted with signs to minimize further impact to the soil resources. (LK)

R647-4-109 - Impact Assessment

109.1 Impacts to surface & groundwater systems

Please send us a copy of any correspondence from the Utah Division of Water Quality for our files. (TM)

R647-4-110 - Reclamation Plan

110.5 Revegetation planting program

A review of the soil analysis shows the soils to be low in nitrogen. As part of the reclamation plan, please consider applying 50 lbs/acre of nitrogen fertilizer. (LK)

R647-4-111 - Reclamation Practices

111.2 Reclamation of natural channels

Please elaborate more specifically how the drainage in this area will be protected and left in a stable manner following reclamation. This should include a commitment to blend any reclaimed channel into upstream and downstream cross sections and protection of the toe of any waste piles from undercutting. (TM)

R647-4-113 - Surety

The reclamation estimate has been revised based on the new information provided in this latest response. These revisions are: (1) a change in the total disturbed area from 10.38 to 10 acres (including current SMO disturbance and projected disturbance) and (2) a reduction in the overburden thickness from eight to three feet (and the subsequent decrease in overburden volume). The change to a ten acre total disturbed area has affected the acreages allotted to specific project features by back-calculating. The revised surety amount is \$36,300 in terms of the year 2002 dollars. A copy of the revised estimate is attached. Please provide the Division with an acceptable form of surety in this amount. (AAG)

Attachment: Seedmix, Surety Estimate

Recommended Topsoil Stabilization
Species List
for

Pearl Queen Perlite Corp.
Perlite Mine
M/001/027

<u>Common Name</u>	<u>Species Name</u>	<u>*Rate lbs/ac (PLS)</u>
'Hycrest' crested wheatgrass	<u>Agropron cristatum</u>	2.0
Ladac Alfalfa	<u>Medicago sativa</u>	1.5
Yellow sweetclover	<u>Melilotus officinalis</u>	1.0
Small burnet	<u>Sanguisorba minor</u>	1.5
Forage kochia	<u>Kochia prostrata</u>	0.5

Total 13.6 lbs/ac

*This the recommended broadcast seeding rate.

Average cost per disturbed acre =

Rounded surety amount in yr 2002-

\$36,300

\$3,630

Pearl Queen Perlite Mine

M/001/027

notes

filename M01-27.WB2

Beaver County

last revision

03/12/97

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|-----|--|
| (1) | D10N, 100 ft push, 3,375 lb/cy, 1 ft depth |
| (1) | D10N, 100 ft push, 3,375 lb/cy, 1 ft depth |
| (2) | D10N, ripping 1 mph |
| (3) | mulch \$85, spread \$15 |
| (4) | fertilizer \$80, spread \$10 |
| (5) | seed 15.5 lb/acre=>\$95/acre, \$10 labor |
| (6) | DOGM |
| (7) | DOGM, 1 dozer |
| (8) | DOGM, 10 hr day \$20/hr |